Hyperdoc® International Newsletter

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Editorial

At the start of the 90's it appears that the PC is ready for a second revolutionary decade. The continuous creation of new and powerful hardware and software products has lead to a new phenomenon: **Multimedia**.

Multimedia allows the integration of new types of information and has been made possible by the growing power of the PC to store, manipulate and display these different types of information. We now have the ability to combine standard data processing with graphics, diagrams, schematics, animation, audio and video.

We hope this edition of the Newsletter will generate a better understanding of Multimedia and its support from Hyperdoc, since once one is aware of the tremendous possibilities that Multimedia offers, many hitherto difficult applications become simple and straightforward

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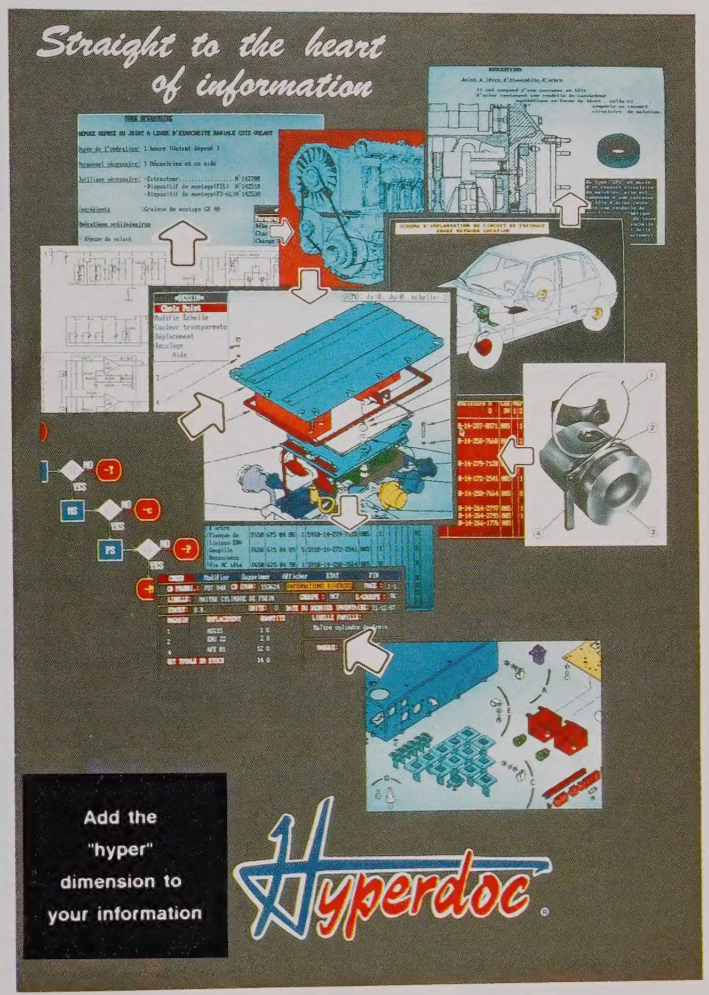

What the press has been saying

"**Multimedia will change the world in the 1990's as personal computing did in the 1980's**" says Apple chairman, John Sculley. Microsoft Corporation Chairman, William Gates, has insisted that "**Multimedia will be bigger than anything we do today**". The PC may become a multimedia tool that - once again - could change the way people work, learn, play. The biggest names in computers, and some in television too, are agog over this prospect. IBM, Apple, Intel, and Microsoft, to name a few, are busily promoting multimedia as the next frontier in PC's, even though its concept is difficult to agree on and its market difficult to define."
- **Business Week**

"Hyperdoc is a more powerful tool, offering much more scope and freedom than other packages."
PC Magazine - February 1990.

"In conjunction with windowed graphical interfaces, image scanners, optical character recognition, mass storage devices such as optical disks, and other advanced technologies, multimedia opens the door to a revolution in corporate computing." **Byte** - February 1990.

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Multimedia: Authoring and Viewer Software

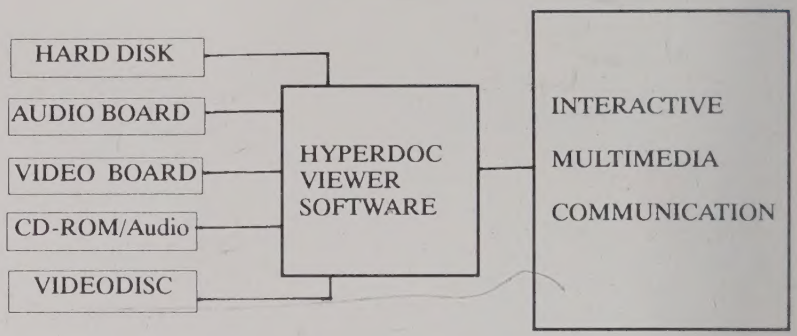
Hyperdoc's Multimedia Authoring and Viewer Software provides a MS-DOS based information system for the IBM PC XT, AT, PS/2 and compatible personal computers.

The core technology is a proprietary implementation of a powerful Multimedia engine, adapted to give the application developer a rich graphical user environment with the ability to integrate text, graphics, animation, high resolution graphics, scanned images, audio, and video into the fabric of an effective communication delivery system.

The application can be authored so that the material can be stored and read from hard disk, CD-ROM discs, CD-AUDIO discs, and/or videodisc using the personal computer, audio boards and/or video boards to present the communication.

Tools and Viewer software

Hyperdoc comprises two software products. The first is the **Hyperdoc Tools**, for the developer and designer of information applications, and contains a full kit of tools to assemble these applications. The second product - called the **Hyperdoc Viewer** - provides a superb, intuitive means by which information users may navigate freely to required information, which may be of all types - whether text, image, video or sound - and display that on a personal workstation.



The Hyperdoc Viewer

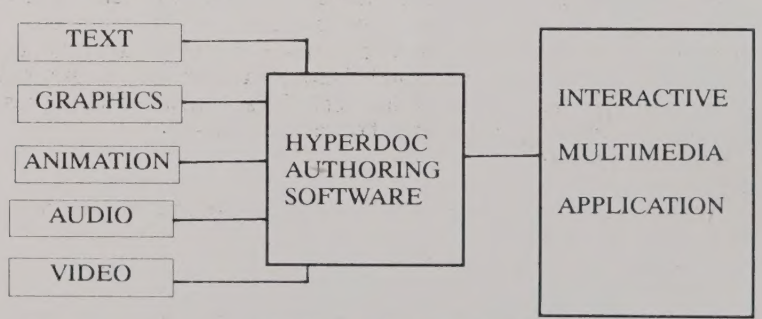
The Hyperdoc applications built using the Hyperdoc tools, and which are delivered to the end users, consist of documents in Hyperdoc's range of internal data types - both image and text. If needed, they may be complemented by a set of software **gateways** to external information sources such as databases, video sequences (from digital video equipment or from video disc) or digital audio sequences. Almost any data type or structure is accessible to Hyperdoc.

Gateways

Hyperdoc allows use of external processes to access information and display it as if it had come from Hyperdoc itself and includes the support of special hardware controllers for digital video, digitised audio and many other devices. One can also access local and remote database systems; information via LAN's/and WAN's; and access and display information obtained from main frame computer systems.

System Requirements

- IBM PC, XT or AT personal computers; IBM PS/2 personal computer, or compatible machines.
- At least 640Kb random access memory.
- At least 5Mb of free disk space; 5 1/4" or 3 1/2" diskette drive.
- Graphics adaptor and screen, from IBM CGA standard to Super VGA and better (full list available on application).
- Highly recommended: a pointing device (eg. IBM or Microsoft serial or bus mouse, IBM PS/2 mouse or compatibles).
- MS-DOS or PC-DOS, Version 3.2 or later.
- Hardware options are application dependent: CD-ROM or WORM subsystems; video subsystems; audio subsystems; LAN or WAN hardware and software.
- Software options, application dependent: e.g., dBASEIII®.



The Hyperdoc Authoring Tools

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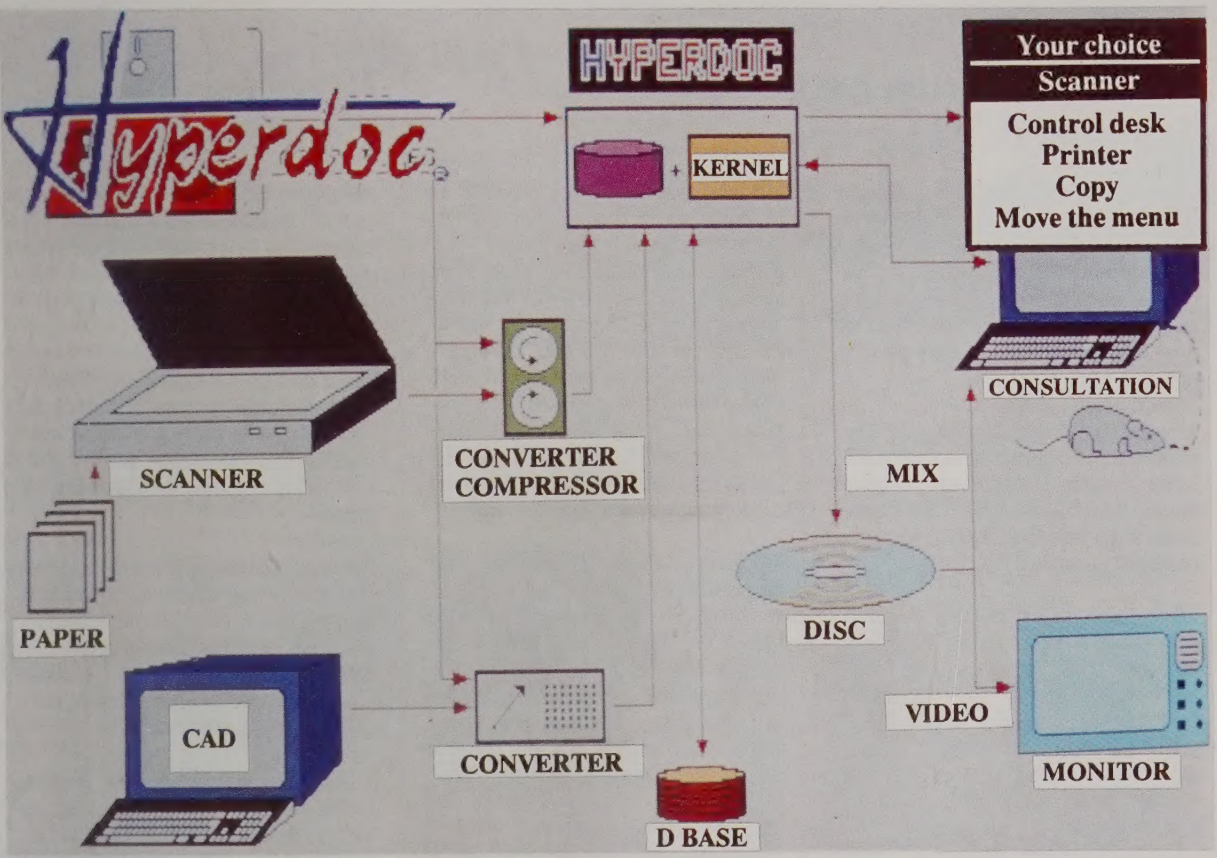

We pull it all together

Multimedia is one of the latest terms to come out of the computer industry and is used to cover the creation, integration and display of information in a wide variety of different forms. For instance the combination of text and video sequences together is multimedia, as is the combination of graphical images and an associated audio commentary. In fact any system that allows the combination of two or more information types may be considered a multimedia system.

Hyperdoc allows the integration of seven different information types - Text, Graphics (Raster and Vector), Decision Trees, Schematics, Interactive Video, Digitised Images and Digitised Audio. Hyperdoc also contains a number of special features to simplify the combination.

What is needed for Multimedia?

By running Hyperdoc on a standard IBM or compatible PC, four different information types are available: Text, Graphics, Decision Trees and Schematics.

In order to add other media types, some extra hardware and software are required.

Digital Audio needs to have the Hyperdoc digital audio card installed in the PC together with an audio driver (supplied with the card) and an external amplifier/loudspeaker. This combination then allows an audio commentary to be added to any type of information.

Interactive video needs an interactive video control card, an external amplifier/loudspeaker and a set of drivers. Having installed these components an interactive video sequence may be integrated with information from other sources and controlled from within Hyperdoc.

Digital Images are incorporated by using one of two platforms. Firstly a low cost digitising card is used to take video images (from a camera, video player, etc.) and creates Hyperdoc-compatible high quality graphics. Secondly a different digitising card is used in conjunction with the appropriate display adaptor and a multisync monitor to give better than TV quality images which are captured from a video source and stored on the hard disc.

All of the above hardware and software elements are available through your local Hyperdoc dealer or from Hyperdoc directly.

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A new dimension for Computer Based Training (CBT)

Bradford-based Mentor Interactive Training Limited, one of the UK's leading innovators in Computer Based Training (CBT), has been looking into *"hypermedia"* software tools which will add a new dimension to the company's training packages.

Mentor is the first training organisation in the country to achieve BS 5750 - the prestigious quality award which equates to the European standard EN29001 and international standard ISO 9001.

With one of Europe's largest courseware production facilities, Mentor has successfully implemented some two hundred TBT projects. Major organisator such as Peugeot Talbot, Coca-Cola Schweppes, Unisys and the Royal Navy, have all benefitted from Mentor CBT projects.

Ian Graham, Technical Director at Mentor says, "*We decided to adopt Hyperdoc to further our evaluation of alternative authoring systems. As one of, if not the first, hypermedia systems to be ready for use on IBM PC and compatibles, it will add an extra dimension to our training packages. The system enables the student to learn by exploration, rather than by being guided through the prescribed routes of a course map.*"

Ian Graham also points out that Hyperdoc has added advantages in terms of its connectivity with CD-ROM, which will further increase the flexibility of Mentor's training packages. The large number of editors available for structures also make screen design and layout easier to develop. This promises improved production ratios and added efficiency.

Hyperdoc UK User Group

Having discovered Hyperdoc early in its introduction to the English market, the Learning Development Unit of Wolverhampton Polytechnic have explored many of its capabilities.

What has become apparent within this exploration is that the product has an increasingly diverse and exciting functionality, which only becomes apparent with experience.

For this reason a "User Group" for UK users of Hyperdoc will be formed in the very near future. The purpose of the group will be to establish communication between users in order to share ideas, successes and problems.

The group will be run by Russel Little, the Head of the Learning Development Unit. The Unit is involved in all kinds of innovations in the development of training materials, particularly interactive video, video training programmes, C.A.L. and desk top publishing, and considers Hyperdoc to be one of its most valuable tools.

Initially the group will produce a newsletter three times a year and it is hoped that this will be available not only as a paper document but also as a Hyperdoc application.

For further details on the Hyperdoc UK User Group can be obtained by contacting:
Russel Little
Head of the Learning Development Unit, Wolverhampton Polytechnic, Wulfruna Street
Wolverhampton WV1 1SB
United Kingdom
Tel. 0902 - 31 30 01

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HYPERDOC at CeBit Fair in Hannover, March, 21th - 28th.

One of the world's largest exhibitions for Computers, Software and new developments in the Electronic Data-Processing will take place in March in Hannover, West-Germany. More than a million visitors are expected during the eight days of this coming event.

Hyperdoc will be promoted and presented by the German Distributor Elekluft GmbH. You will find Elekluft in hall 16 at the AEG booth. The presence of the AEG is not just by chance, but due to the fact that both companies belong to Daimler Benz Holdings, which was formed in 1989, and contains well-known companies like Dornier, MBB and MTU.

Elekluft GmbH Bonn, a company founded more than 28 years ago, is specialized in System Engineering, System Support and System Logistics. Clients are the Armed Forces, Governmental Authorities, car-manufacturers, Electronic Industry, the European Space Agency as well as various divisions of AEG.

The logistics know-how is concentrated in the department "System Logistics and Software", which is also responsible for all activities concerning Hyperdoc. In this department, approximately 150 specialists work on logistic support matters, production and conception of technical publications, database design, office automation, and perform consultancy studies on these subjects. In cooperation with the Training Department and the in-house IBM based EDP-centre, the best organisational basis exists for the distribution of Hyperdoc.

The combination and integration of different media types has been performed by Elekluft for various clients in the past. Thus the company already has much experience in "Multimedia" arena.

The service and support this company offers on the German market ranges from the delivery of software to the production of applications, training, advisory services, hot-line and software maintenance.

Due to recent market reactions and the capabilities of Hyperdoc, Elekluft feels optimistic in coping with the challenges of the German marketplace.

Third Dutch Online Conference

At the third Dutch Online Conference and Exhibition held end February 1990 in Rotterdam, L.I.S. Information demonstrated a Hyperdoc application: a computerized presentation of their product line including operating seven CD-ROM drives in a network configuration. Using the full power of Hyperdoc, L.I.S. Information demonstrated various products, combining graphics and text. Bart van den Broek of L.I.S. Information stated that "demonstrating was never so easy - it was a piece of cake".

The application was set around a number of basic graphic screens for its value over words. From there on, the adding of captions and hotspots were easily made to make it an interactive presentation with other screens, text, or access to any software program thinkable. One of the possibilities was access to seven CD-ROM drives configured in a network. By one simple click-of-the-mouse one could start either SilverPlatter databases or other titles.

Although it might sound quite extensive, the application was run on a simple AT machine, with no additional hardware or software resources necessary to run Hyperdoc. This typical Hyperdoc application could also be used for training facilities.

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Digital Multimedia Information System (DMIS)

AAI Corp. Hunt Valley, Maryland, U.S.A. has developed authoring and delivery system software that is an ideal companion for Hyperdoc. The product is called DMIS (Digital Multimedia Information System). DMIS is PC based running under DOS, and includes all of the tools required to capture, create, and edit drawings, text, and video frames. The resulting documents and video can be imported into Hyperdoc and displayed using Hyperdoc's **WAIT-EXECUTE** command. The system utilizes a video board that will output in NTSC or PAL. A complete speech capability is included using a speech board.

The applications for DMIS focus on the need to provide graphic instruction in "how to" perform procedural tasks using full colour video frame animations. DMIS makes available all relevant supporting information that may be required to support these tasks. This supporting data may include theory of operation, drawings, parts list, logistical data, etc. DMIS includes a complete "tool box" for the generation of interactive courseware for developing training scripts.

DMIS is fundamentally a tool for capturing information in digital form, a means for the distribution of this information, and a system for the presentation of this information. Put another way, it is a system for authoring, distributing and delivering digitized information. The DMIS software includes tailored interfaces to an Expert System and a Relational Database.

The primary goal in the development of the DMIS software was to produce a system that minimizes the cost of authoring. An equally important consideration was to produce a system that will be able to access any type of information (text, graphics, captured video frames, CAD generated drawings, and raster images) and displays this information rapidly.

Typical applications include:

- Training applications: capabilities to develop student and instructor station courseware, student response monitoring, report preparation, etc.
- Automatic Test Equipment applications: DMIS presentations can be synchronized with the automatic testing being performed.
- Process controlled system monitoring: applications where infrequent, but time critical maintenance or emergency procedures need to be presented such as chemical or power plants.
- Manufacturing applications: free standing or networked information systems presenting assembly procedures, instruction, and accessing related data.

The basic DMIS tool is the same for all of these applications. AAI has the engineering and support capability to interface DMIS into any existing system or as a free standing information system.

The types of information captured and displayed include:

- CAD Drawings;
- Graphics (drawings, illustrations, schematics, etc.);
- Video (captured video frames);
- Icon and symbols;
- Text;
- Computer generated and recorded speech and music.

The delivery system operates on a PC computer (286 or 386) with a standard analog multi-sync colour monitor. Two special boards are added to the computer. One is an imaging board used to create full colour bit-mapped images. Both Hyperdoc and full colour video information are displayed on the same analog monitor. The second is a speech board that has digitized speech capability (recorded speech), synthesized speech (computer generated speech from text files), and voice recognition (command the system by voice input). The delivery system includes a microphone (cordless microphone optional) and a speaker. Optical disk technology or floppy discs are used for the storage and distribution of digitized information and the data bases.

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Byzantine history on Hyperdoc

It is getting more and more difficult for students to find the right way throught the huge amount of information available today. For example, in high standard history books it is not exceptional to find pages with only two lines of text and thirty lines of notes! Reading and studying become therefore a heavy and dispersive task and the reader tends to get lost among the references, footnotes and documents which have to be examined.

For this reason, the Italian Company Diamond Byte launched the idea of publishing a whole history book on a multimedia information presentation system. A Technical Committee was formed, consisting of the ten greatest Medievalists, supervised by Professor A. Carile, Dean of the Humanities Department of Bologna University. Financed by Diamond Byte, some graduates have been offered a scholarship to examine and analyse texts, sources and supporting material to be submitted to the committee.

The result will be the first "Hyperbook" on Byzantine History. It will count 50,000-70,000 pages supported by CD-ROM presenting beside text, a wide variety of information: photographs, pictures, animations, sounds. The compacting ratio that has been chosen is 1 to 500, which means that the base consists of 100 pages of text.

This multimedia system will be very useful as an active support for lectures, especially with the aid of a video or other types of media. It will also be possible to print one's consultation path on a laser printer which will make the use of a Hyperbook in a librarian context very attractive.

Sources enriching the description of concepts will be supplied in their original language.

The project of a book on Byzantine history had been left aside for several years and only the arrival of Hyperdoc allowed it to go through every projecting phase without any trouble and to achieve at least the final objective, i.e., the actual creation of the "Hyperbook" on Byzantine history.

The Hyperdoc information presentation system offers a great range of consulting facilities and gives the possibility of a simple use of concepts, leaving to the user the task of choosing his/her consultation path, following personal interests or well specified study requirements.

It is by means of the hypertext technology that the user will be able to consult a total outline of, for example, Byzantine political bibliography in a very simple and functional way. Multimedia technology offers a total information picture: pictures of ancient musical instruments will be associated to their sounds; similarly it will be possible to listen to a collection of ancient songs.

The traditional way of storing and publicing information cannot meet the demand of more information as books and papers are passive and closed to every intervention by the user. The great importance of transferring a history book on a multimedia system is that of providing a new practical tool for the consultation and the study of such a complex and open matter as history.

Hypertext and multimedia technology blend together as a practical consultation tool. As an ever-surprising information coffer, it is the foremost technology allowing us to feel past magic.

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Multimedia development system

Hyperdoc USA has begun marketing a multimedia development system consisting of the Hyperdoc Tools, Hyperdoc applications and libraries and multimedia development hardware. Hyperdoc USA will be marketing this system to integrators and developers and will ensure all necessary support.

The multimedia development system is capable of capturing audio and video information for incorporation into a Hyperdoc application. The multimedia hardware consists of pioneer's 4200 laserdisc player, Redlake's Spectrum NTSC overlay board and Forte's Audio F/X card. The minimal PC requirements for using the multimedia development system are AT class machine, 640kb memory, VGA monitor and hard disk.

The software components of the multimedia development system consist of two Hyperdoc applications (Videodisc Controller and Video Effects Controller) and two Hyperdoc libraries (Laserdisc Command Library and Video Effects Library).

Videodisc Controller

The Videodisc Controller application can be used to control the Pioneer 4200 laserdisc player directly from the computer. The developer can scan laserdiscs quickly and setup still or motion video sequences for viewing before incorporating them into an application. This allows the developer to get a feel for how a sequence will look before any scripting takes place. The developer can experiment with parameters such as start and stop frame locations, playback speeds and text overlays.

Video Effects Controller

The Video Effects Controller application was developed as a program to allow the developer to experiment with the video effect

capabilities of Redlake's Spectrum NTSC overlay board. The special effects capabilities of the board include the placement, movement and size of the video window displayed on the VGA monitor. Adjustment of the picture brightness, contrast, color and hue is also available.

Laserdisc Command Library

The Laserdisc Command Library is a set of Hyperdoc command extensions used for controlling a laserdisc player. With these commands the developer can search and retrieve still images and video clips from the laserdisc player. Command library support for other laserdisc players is currently under development.

The commands were designed to be easy to understand and use. As an example the action script **%VPFRAMESRCH, "1000"**;
would cause the laserdisc player to search for and output video frame number 1000 to its video port. This frame could then be picked up by an overlay board and displayed on the PC monitor or displayed to an external video monitor.

Video Effect Library

The Video Effect Library is a set of Hyperdoc command extensions used for controlling an overlay board. Overlay boards are used to combine video input with computer graphics for display on PC monitors. The video effects commands include zooms, pans, moves and a host of control commands for blanking the image or adjusting the brightness, contrast, color and hue. These commands like the laserdisc commands are equally as easy to use. For example the action script:
%VIDZOOMHALF;
%VIDPANPERIM;
would cause the video image to be sized in a window one-half the size of the monitor and then moved completely around the perimeter of screen. The Video Effect Library supports the Spectrum NTSC board.

The **Spectrum NTSC overlay board** from Redlake displays video pictures, text or graphics simultaneously on the monitor of a IBM PC-AT or compatible computer. This high-quality display is programmable to EGA, VGA, 800x600 or VGA text resolutions. The Spectrum NTSC adapter can receive video from a live program, camera, disk, tape or any source outputting NTSC video, and is displayed using a selectable chroma key.

The Spectrum NTSC can grab a screen display and a number of software operations can be performed on the digitized image. The Spectrum NTSC can convert the grabbed video to TIFF, TGA or PCX file formats.

Forte's Audio F/X card is used to capture and digitize sounds. It uses two 6582 SID's that can create some incredible sound. In addition an AD/DA convertor with DMA capability has been provided to record and playback any sound. Some of the features of the SID's include: three independent voices per SID, attack/decay/sustain/release control, frequency, pulse width modulation, software volume control and filter control.

For more information please fill in the enclosed information voucher.

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Hyperdoc USA developers pioneer the Multimedia frontier

Hyperdoc USA is training and supporting a new breed of tough, enterprising, talented independent developers and development companies as they claim their territory and carve out a profitable future in the multimedia wilderness. 1990 is the year that Hyperdoc USA and its growing number of **Multimedia producers** show the rest of the country how applications, markets, and business can be built using Hyperdoc's Multimedia Development Software.

Multimedia is an expanded, effective way of accessing information and handling communications that uses an interactive graphical user interface to retrieve and present text, graphics, animation, audio, and/or video material all under the control of a personal computer.

The quality, flexibility, attractiveness, effectiveness, and ease of use of applications using Hyperdoc Multimedia Development Software is dramatically improving training, education, corporate/marketing presentations, video production, simulation and accessibility to manuals, guides, documentation or reference material.

Hyperdoc Multimedia producers team up with Hyperdoc USA in the development and distribution of new and innovative multimedia solutions. A custom multimedia application can be created for a specific customer or a vertical application can be defined and developed to be marketed within a major industry. Some Hyperdoc Multimedia producers are developing horizontal applications that can be marketed across multiple industries or products that are actually intended to be used by the customer in the home.

Hyperdoc Multimedia producers are provided a complete range of state-of-the art, integratable hardware and software tools, the training, and support necessary to tie everything into one cohesive system.

Hyperdoc Multimedia producers attend Hyperdoc hosted seminars and workshops that cover all the issues and methodologies related to multimedia application development and marketing.

Multimedia Customers requiring custom solutions are not one-time buyers. They are looking for a company they can depend upon for the integration of computers with text, graphics, animation, audio and video with effective user interfaces and appropriate interactivity. Multimedia customers want long-term support, training, and technical expertise that can only be provided by authorized Hyperdoc Multimedia producers.

Hyperdoc USA will be presenting its **Multimedia Producer Program and Services** to prospective developers at SALT conference in Florida and Washington D.C., the Multimedia Expo in New York, COMDEX in Atlanta and Las Vegas, and other important trade shows.

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Where you can find us in 1990

Country - Place	Date	Name of Event	Venue/Representative
Belgium			
- Gent	15-20 October	INTERELECTRONIC	Exhibition Hall / Eudis SA
France			
- Paris	1-3 October	SIGED 1990	Parc des Expositions Porte de Versailles / GECI Int.
- Paris	Monday-Friday	Permanent Exhibition	CNIT level 2, La Defense / GECI Int.
Germany			
- Hannover	21-28 March	CeBit Fair	Messegelande Hall 16 / Elekluft GmbH (AEG)
- Frankfurt	10-14 October	Frankfurt International Book Fair	Frankfurt Exhibition Centre / Diamond Byte SpA
Italy			
- Milan	4-8 October	SMAU Fair	Largo Domodossola n.1 / In Systems SpA
The Netherlands			
- Utrecht	29-31 May	Europe Software	Jaarbeurs / L.I.S. Information

Country - Place	Date	Name of Event	Venue/Representative
The United Kingdom			
- Birmingham	24-27 April	The Which Computer? Show	National Exhibition Centre / Hyperdoc PLC
- Birmingham	3-5 July	Education, Training and Personnel Development 10th National Exhibition (and Conference)	National Exhibition Centre / Hyperdoc PLC
- London	16-18 October	International Time 1990 The Interactive Multi-Media Event	Barbican Exhibition Centre / Hyperdoc PLC
United States of America			
- New York City	27-28 March	Multimedia Expo	New York Hilton / Hyperdoc Inc.
- Chicago	1-4 April	Computer-Based Training Conference & Exhibition	Hyatt Regency / Hyperdoc Inc.
- Atlanta Georgia	3-6 June	COMDEX Spring	Georgia World Congress Center / Hyperdoc Inc.
- Las Vegas Nevada	12-16 November	COMDEX Fall	Las Vegas Convention Center / Hyperdoc Inc.

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Hyperdoc Products and Services

Hardware

We offer the hardware necessary to turn a standard PC AT, PS/2 or compatible into a fully functioning Multimedia computer:

- Video Digitizer and Effects Board
- Audio Digitizer and Effects Board
- VideoDisc Players
- CD-ROM/Audio Players
- Scanners

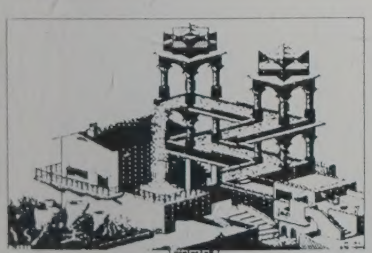
Software

We sell or recommend the necessary software to create a Multimedia application:

- Word Perfect or word processor of choice
- PC Paint or other PCX or TIFF program
- Autodesk Animator
- dBASEIII
- OCR software
- The VideoDisc Controller
- The Sound Editor
- Media

Media

We clearly understand the distinctions between "software", "audioware", and "videoware" production and have worked with many excellent graphic design artists, audio production and video production studios. We are staying current on the technological and business issues relating to the use or pre-mastering of storage media such as WORM, CD-ROM, CD-AUDIO, CD-ROM XA, VideoDisc, DVI, or MOD.



Systems and Applications

We provide training and support on special combinations of hardware and software which are necessary for the creation of specific applications and information delivery systems:

- **Interactive Video Systems** - for Training, Simulation, Video Databases.
- **Imaging Systems** - for Real Estate, Personnel Records, Photo Databases.
- **Multimedia Reference Systems** - for Catalogs, Guides, Manuals.

Multimedia Training

The aim of the Multimedia training course is to introduce Hyperdoc users to the concepts of Multimedia, and the structure and design of the Hyperdoc software which will enable them to implement those concepts. The course will give them a grounding that will allow them to proceed further on their ouw Multimedia projects.

The core of the course is the Multimedia hardware that is used and the course content that is structured around this hardware. The training provides each attendee with a hands-on experience in developing a Multimedia application. The Multimedia hardware that is used can include a laser disc player, a still image camera, an overlay board and an audio board.

The course also addresses the design issues of Multimedia projects. The course stresses good design and ergonomic techniques with the aim of helping the attendees understand the need for a well balanced application that involves sound logical design tempered with the right touch of creativity.

Important

Popular demand for our Products and training in Multimedia Application Methodology has lead to a further expansion of our training services and facilities. Please book your training at least one month in advance.

European Conference on Hypertext - Paris November 27-30 1990

Call for papers (deadline 2 April)

The subject of hypertext and multimedia has been witnessing a dramatic rise in interest over the last few years both form the industrial as well as from the academic communities. The purpose of this Conference, organized by ECHT'90, is to set up a wide ranging scientific European event where researchers, developers, and users can meet around the theme of hypertext and multimedia.

For more information about participating please contact **S.C.O.I.R., 2ter, Rue de Chantilly, F-75009 PARIS. Tel. (33) 1.42.85.17.90**

Multimedia Training Programme 1990

- Introduction to Multimedia
- Multimedia Application Design & Methodology
- Hyperdoc Training Workshop

Maximum 6 persons per training group

Training available in France, The Netherlands, the United Kingdom & the USA
Training also available "on-site"

INTRA appointed approved Hyperdoc developer

INTRA, designers and producers of innovative technology-based training solutions, was appointed as the first approved developer of Hyperdoc in the UK.

The potential of Hyperdoc's programming tools means that Intra's designers and producers can use their talents and expertise to create a more sophisticated and even wider range of training programmes.

Electrographic appointed exclusive distributor for Switzerland

Electrographic S.A., a company specialized in Computer Aided Publishing, has been appointed exclusive distributor of Hyperdoc products in Switzerland.

Electrographic seeks to achieve optimal quality in the services rendered. The most important policy is to provide clients not only the most adequate system for their needs, but also to enable them to use it effectively, through adequate training and support.

Your local Hyperdoc Distributor/Dealer:

Colofon

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